

207/10-39-245/29

Changes in the Geography of Soviet Machine Building

large shipyards were built, and plants for the construction of dredgers and ship motors, etc. In this region an automobile plant, some ball-bearing plants and also plants for tractor parts and units were built. In order to mechanize all kinds of loading work, plants for the production of cranes and other machines were constructed. The production of equipment for the light and food industries was organized in Saratov, Kuybyshev and other cities. In the Volga region, a considerable number of watches, typewriters, devices, etc. is produced. Since 1940, the production of the machine building and metal machining industries has increased nearly 12 times. A complex of machine building industries is being built in West Siberia. Already before World War II some plants had been built here, but a considerable part of the large plants of this branch was constructed during the last 10-15 years. In 1955, machine building and metal machining production had

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increased nearly 20 times as compared to 1940. During this period plants for tractor agricultural machines, machine tools, power engineering machines, transport and mining machine building were built. The production of devices and fine machines developed satisfactorily. Large centers of machine building industries are developed in the Kemerovo Oblast' and Altayskiy Krai, in the Novosibirsk, Omsk and Tomsk Oblasts. The Kemerovo Oblast' economically is the most developed section of West Siberia. Its character is determined by mining industries, ferrous and non-ferrous metallurgy, chemical industries and machine building. The growth of the metallurgical and other branches of heavy industry made possible the establishment of plants, which produce machines and equipment for many branches of the national economy.

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In the Kemerovo Oblast', machines

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and equipment for the mining industry, the grinding and elevator business, the building industry etc. are being produced. Machine building is the leading industrial branch in Altayskiy Kray. Here on the basis of machine building, the old city Barnaul has been transformed into an industrial center. New cities such as Rubtsovsk, Biysk, Slavgorod have risen. Novosibirsk may serve as an example for the formation of a modern, machine building center. The gross production of the city (mostly agricultural processing products) which formerly was called Novonikolayevsk, amounted to some millions of rubles in the pre-revolutionary period, and machined metal items represented only 2% of the production. In 1957, industrial production was several times larger than in 1940. The industrial structure changed: machine building developed, metallurgy rose, the importance of the chemical

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industry was increased. Modern Novosibirsk is a city of machine building. Here agricultural machines, electric generators and motors, electric equipment for diesel locomotives, electric saws and lamps, mining equipment, steel parts for bridge building and the construction of mines, pumps, drilling equipment, steamships, telephone apparatus, bearings and various devices are produced. Machine tool and instrument manufacturing plants produce various lathes, forging and pressing machines; measuring, cutting and mounting instruments. Omsk is a big machine building center. Here technical items, motors and lathes, casting equipment and agricultural machines, equipment for transport, leather, wool, meat and milk industries, fine instruments and tractor spare parts are produced. Machine building plants also were established in many other

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cities of West-Siberia. Here a large complex of plants is forming, which is supplied by its own metallurgical and power base, and which is capable of supplying machines and equipment to the developing industry, agriculture and transport business of the eastern regions of the country. Groups of specialized machine building plants were or are being built also in other regions of the USSR. In the Azerbaijan SSR many plants have been built, which produce machines for oil extraction. In the Uzbek SSR, plants were built for the production of cultivation machines. In the Far East, shipyards were built, in East-Siberia - plants producing equipment for the mining and lumber industries. As a result of the construction of so many plants in the new regions, the production of machines and equipment grows considerably faster than the average for the whole Soviet Union (for comparative

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figures see special table). - Soviet machine building is distributed over nearly all economic administrative districts. Some branches of machine building, however, were not sufficiently developed in the new industrial regions of the country. For instance, about 80% of all automobiles are produced in the "Center", though automobile plants have been built in the Urals, in the Volga region, in White Russia, Georgia and the Ukraine. In the future, according to the development of the third metallurgical base in the eastern districts, there may also be created a large complex of automobile plants. Excavator production is prevalently concentrated in the Center. Nearly all diesel and electric locomotives are produced in the southern and central regions of the country. In the eastern district, however, the RR lines are converted to diesel and electric traction. In the control figures

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CCW/10-50-1-6/26

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for the development of the Soviet national economy, it is shown, that within the next seven years the main lines Moscow-Kulibin-Irkutsk-Irkutsk, Moscow-Gor'kiy-Orellovsk, Kirovograd-Magnitogorsk-Ufa will be electrified. The locomotives for these lines could be constructed in the eastern regions. Under Soviet rule a more regular distribution of the machine tool producing industries has been obtained. In the prerevolutionary years about 80% of the machine tools were produced in the Center and North-West, but now the Center produces about 30%, the North-West - 4.4% of machine tools. In the districts, which formerly had no machine tool plants, a considerable number of machines is produced: in the Ukraine - 12%, in White-Russia - about 10%, in the Urals - more than 10%, in the North-Caucasus - about 9%, in the Volga region more than 7%. The production of tractors and

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agricultural machines, electric motors and equipment, building, road construction and other machinery and equipment was organized in many districts of the country. The second section of the article is concerned with the importance of the control figures for Soviet economic development in the current Seven-Year Plan. The author points to the fact that the most basic economic changes will occur in the eastern regions with inclusion of the Urals, Siberia, the Far East, Kazakhstan and Central Asia. For the concerned period, capital investments for these regions amount to 40% of the appropriated total. As a result of comprehensive plant construction the specific weight of these regions within the Soviet production total in 1965 will attain 48-49% of rolled material and steel production, about 50% of the coal production, 46% of the

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produced energy, more than 45% of the produced sawing materials, 30% of the oil extraction. The author then deals with the requirements of the individual districts and cities, the plans considering their further development and the role of the sovnarkhozes in the given tasks. In the second section of the article the following Soviet plants are mentioned: Zavod "Krasnaya Etna" (Plant "Krasnaya Etna") in Gor'kiy (automobile wires, automobile springs, reinforcing parts, etc), Borskiy steklozavod imeni Gor'kogo (Bor Glass Plant imeni Gor'kiy in the Gor'kiy Oblast) (automobile glass), the Kartonazhnaya fabrika imeni Krupskoy (Cardboard Factory imeni Krupskaya) in the Gor'kiy Oblast, the Zavod shoferskogo instrumenta (Car Driver Accessory Plant) in Pavlovo on the Oka river, Vaylochnaya fabrika (Felt Plant) at the RR station Tolkontsevo (parts and items for the automobile

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industry), Koshevod imeni Kalinina (Leather Plant imeni Kalinin) in Bogorodsk, Gor'kovskiy avtozavod (Gor'kiy Automobile Plant), Yaroslavskiy rezino-asbestovyy kombinat (Yaroslavl' Rubber-Asbestos Combine), fabrika "Krasnyy Oktjabr'" (plant "Krasnyy Oktjabr") in the Ivanovo Oblast, Kineshemskaya fabrika po proizvodstvu fibrovlykh prokladok (Kineshma plant for the production of fiber linings) and the Kuybyshevskiy karbyuratornyy zavod (Kuybyshev Carburetor Plant). There is 1 table and 1 Soviet reference.

ASSOCIATION: Nauchno-issledovatel'skiy ekonomicheskiy institut Gosplana SSSR (Economic Scientific Research Institute of the Gosplan of the USSR)

Card 19/19

FEIGIN, Ya.G., doktor ekon.nauk; VILENSKIY, M.A., kand.ekon.nauk;
OMAROVSKIY, A.G., kand.ekon.nauk; LIVSHITS, R.S., doktor ekon.nauk;
CHUGUNOV, B.I., kand.ekon.nauk; SHOKIN, N.A., kand.ekon.nauk;
IOFFE, Ya.A.; VARANKIN, Y.V., kand.ekon.nauk; ROZENFEL'D, Sh.L.,
kand.ekon.nauk; KORNEEV, A.M., doktor ekon.nauk; OPATSKIY, L.V.,
doktor ekon.nauk; VASIL'IEV, N.V., doktor ekon.nauk; RUDENKO, N.A.,
kand.ekon.nauk; BYSTROZOROV, A.S., kand.geogr.nauk; POPOVA, Ye.I.,
kand.ekon.nauk; KRUTIKOV, I.P., kand.geogr.nauk; BAKOVETSAYA, V.S.,
red.izd-va; SHEVCHENKO, G.N., tekhn.red.

[Special features and factors in the distribution of branches of
the national economy of the U.S.S.R.] Osobennosti i faktory
razmeshcheniya otrashlei narodnogo khoziaistva SSSR. Moskva, 1960.
(MIRA 14:3)
692 p.

1. Akademiya nauk SSSR. Institut ekonomiki.
(Economic zoning)

OMAROVSKIY, Aleksandr Grigor'yevich; ZIV'YALOVA, A.N., red.; LISOV,
V.Ye., red.; GERASIMOVA, Ye.S., tekhn. red.

[Development and distribution of the machinery industry in the
U.S.S.R.] Razvitiye i razmeshchenie mashinostroeniia v SSSR. Mo-
skva, Ekonomizdat, 1962. 236 p.
(MIRA 15:7)
(Machinery industry)

ALAMPIYEV, P.M.; OMAROVSKIY, A.G.; UDOVENKO, V.O.,

New features of the literature on the economic regions of the
U.S.S.R. Izv. AN SSSR. Ser. geog. no.4:147-151 Jl-Ag '63.
(MIRA 16:8)

(Bibliography --Geography, Economic)

JUHASZ, Jozsef, mining engineer; OMASITA, Janos, mining and mech. engineer

Influence of the relative velocity of plough and scraper conveyor
on the winning process of working by plough. Izvestiia Bany KI
no.3/4:131-134 '59/60.

OMBACH, Elzbieta

Karl Gustav Jung, his life and work. Przegl psychol no.8:
187-199 '64.

OMBERG, R.A., inzhener; USPENSKIY, I.K., kandidat tekhnicheskikh nauk.

Strengthening the parts of railroad-car brake levers.
Vest. TSNII MPS 15 no.4:30-32 D '56.

(MLRA 10:2)

(Railroads--Brakes)

OMBERG, R.A., inzh.

Effect of the local plastic deformation on the changes in
the characteristics of steel for rails. Vest.TSMII MPS
21 no.6:37-40 '62. (MIRA 15:9)
(Steel, Structural--Testing)
(Railroads--Rails)

OMBERG, R.A.

Methods of determining the contact strength of rail metal.
Zav.lab. 28 no.10:1245-1217 '62. (MIRA 15:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezodorozhnogo
transporta.
(Railroads—Rails) (Metals—Testing)

OMBERG, R.A., inzh.

Durability of steel of experimental melts when tested for repeated impact. Trudy TSNII MPS no.252:184-189 '63. (MIRA 16:3)
(Steel--Testing)

HUNGARY

OMBOLY, Csaba; DERZSI, Erzsebet; United Drug and Nutrient Factory (Egyesult Gyogyszer- es Tapasztanyar), Budapest.

"Analytical Investigation of 8-Hydroxyquinoline and Its Derivatives."

Budapest, Acta Pharmaceutica Hungarica, Vol 32, No 6, Nov 62, pp 246-250.

Abstract: [Authors' Hungarian summary abridged] 8-Hydroxy-quinoline and its derivatives may be determined by their precipitation with a known excess of standard zinc sulfate followed by the addition of chloroform to dissolve the chelate and the titration of the excess zinc ion with Eriochrome Black-T indicator colorimetrically. These compounds may be determined also by perchloric acid titration in anhydrous solvent with crystal violet indicator except in the presence of metal contaminants in which case the metal chelates must first be decomposed by heating in glacial acetic acid before the titration could be carried out. [Three Hungarian and 8 German references.]

1/1

OMBOYeva, O. M. Cand Med Sci -- (tiss) "Odontogenous inflammatory processes in the suborbital area, and their topographical-anatomical description." Mos, 1957.
14 pp (Min of Health RSFSR. Mos Med Stomatological Inst), 250 copies
(KL, 3-58, 99)

~~ONTOGENY OF SUBORBITAL ABSCESS~~

Odontogenic suppurative processes of the suborbital region and their anatomical topographical classification. Stomatologiya 36 no.3:
52-57 May-June '57.
(MIRA 10:9)

I. Iz knyedykh khirurgicheskoy stomatologii (zav. - prof. A.I.Yevdokimov) Moskovskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.N.Beletskii.)
(ORBIT (EYE)-ABSCESS)

OMBOYeva, O.M., kand.med.nauk:

Thrombophlebitis of the facial veins. Stomatologiya 41 no.5:
38-40 S-0 '62. (MIRA 16:4)

1. Iz stomatologicheskogo otdeleniya Respublikanskoy bol'ницы
Ulan-Ude (glavnnyy vrach B.Kh.Antokhonov).
(FACIAL VEIN--DISEASES) (THROMBOPHLEBITIS)

OMBRADOS, V.P.

Treatment of toxic dyspepsia with synthomycetin and with levomycetin.
Pediatria, Moskva no.4:54-57 July-Aug 1953. (CIML 25:1)

I, Of Children's Hospital imeni Rusakov (Head Physician -- Honored Physician RSFSR V. A. Kruzhkov; Scientific Supervisor -- Prof. A. I. Dobrokhotova, Corresponding Member AMS USSR).

OMBRADOS, V.F.

OMBRADOS, V.F.

Method for drip transfusion of blood and other fluids to infants
during their first months of life. Vop. okh.mat. i det. 2 no.4:
90-92 Jl-Ag '57. (MLR 10:9)

1. Iz grudnoe otdeleniya detskoj gorodskoj klinicheskoy bol'ницы
No.2 imeni Russkova (glavnnyy vrach - zasluzhennyy vrach RIFER V.I.
Kruzhkov)
(BLOOD--TRANSFUSION)

ARTEMKINA, L.N., kand.med. rank; OMBRADOS, V.F.; RABINOVICH, D.Ya;

Problem of the clinical aspects of Escherichia coli in children.
Vop. okh.mat. i de.; 4 no.2:17-21 Mr.Ap '59. (MIRA 12:5)

1. Iz kafedry gos'pital'noy pediatrii (zav. - prof. K.F.Popov)
II Moskovskogo meditsinskogo instituta im. N.I.Pirogova, i
Det'skoy klinicheskoj bol'nitsy im. I.V.Rusakova (glavnyy
vrach V.A.Kruzhkov, nauchnyy rukovoditel' - prof. M.M.Bubnova).
(ESCHERICHIA COLI) (CHILDREN--DISEASES)

ARTEMKINA, L.N.; OMBRADOS, V.F.; SOROKIN, A.F.

Congenital leukosis in a 2-day-old infant. Probl. genet. i perel.
kravu no. 2:47-51 '62. (MIRA 15:1)

1. Iz kafedry gosj ital'noy pediatrii (zav. - prof. K.P. Popov)
II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni
N.I. Pirogova i patologoanatomicheskogo otdeleniya (zav. -
doktor med.nauk L.O. Vishnevetskaya) na baze gorodskoy klini-
cheskoy bol'nitsy No.2 imeni I.V. Rusakova.
(LEUKEMIA) (INFANTS (NEWBORN)--DISEASES)

IOKHIMOVICH, D.; KOPTELOV, A.; OMBYSH-KUZNETSOV, S.; SUBBOTINA, G.M.,
tekhn, red.

[My Siberia; verse, sketches, articles on the seven-year plan]
Moia Sibir'; stikhi, ocherki, stat'i o semiletнем plane. No-
vosibirsk, 1960. 333 p.
(MIRA 14:10)
(Siberia, Western—Economic policy)

IVANOV, B.V.; MIGIRENKO, G.S., prof.; MOLETOTOV, I.A.;
OMBYSH-KUZNETSOV, S.O.; SOSKIN, V.L.; LOKSHINA, O.A., tekhn.
red.; VYALYKH, A.M., tekhn. red.

[Science center at Novosibirsk] Novosibirskii nauchnyy tsentr.
Novosibirsk, Izd-vo Sibirskego otd-niia AN SSSR, 1962. 206 p.
(MIRA 16:7)

1. Akademiya nauk SSSR. Sibirskego otdeleniya.
(Academgrodok--Academy of Sciences of the U.S.S.R.)

SHCHERBAKOV, V.K.; LUKASHOV, E.S.; OL'SHEVSKIY, O.V.; FUTILOVA,
A.T.; OMEYSH-KIZNETSOV, S.O., red.

[Tuned electric power transmission lines] Nastroenye elektro-
peredachi. [By V.K.Shcherbakov i dr. Novosibirsk, Izd-vo
Sibirskogo otd-niia AN SSSR, 1963. 271 p. (MIRA 17:4)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Transportno-
energeticheskii institut.

GORBACHEV, T.F.; PATHUShev, I.S.; KOSTYLEV, A.D., kand. tekhn.
nauk, otv. red.; OMBSH-KUZNETSOV, S.O., red.

[Coal-mining machinery and equipment] Ugledobyvaiushchie
agregaty i kompleksy. Novosibirsk, Izd-vo Sibirskego otd-
nia AN SSSR, 1974. 162.p.
(MIRA 17:5)

POLAND / Chemical Technology. Chemical Products.
Ceramics, Glass, Astringents. Concrete.

H

Abs Jour: Ref Zhur-Khimika, 1958, No 20, 68157.

Author : Vinogradov L., Omelanczuk J.

Inst : Not given.

Title : Steotitic Masses with Increased Mechanical Strength
Attained After Calcination.

Orig Pub: Szklo i ceram., 1957, 8, No 10, 278-281.

Abstract: Review of literature on the problem of manufacture of V. Ch. type steotitic radioceramics (R) of higher mechanical strength ($\sigma_{bending} > 1400$ kgr/cm²), conforming to the GOST 5458/58 specifications. Effect of additives (BaO, CaO, Fe₂O₃, ZnO) and of refractory clays on the mechanical, physical and dielectric properties of the MgO - Al₂O₃ - SiO₂ system are reviewed. Results of an investi-

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POLAND / Chemical Technology, Chemical Products,
 Ceramics, Glass, Astringents, Concrete.

H

Abs Jour: Ref Zbir-Khimiya, 1958, No 20, 68157.

Abstract: increase in the mechanical strength of R. Addition of the refractory clays is beneficial provided their R_2O content does not exceed 0.5%.

Card 3/3

26

POLAND / Chemical Technology. Chemical Products. H
 Ceramics. Glass. Astringents. Concrete.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 68158.

Author : Vinogradov L., Omelanczuk J.

Inst : Not given.

Title : Steatitic Masses with Increased Mechanical Strength
 After Calcination.

Orig Pub: Szklo i ceram., 1957, 9, No 4, 101-106.

Abstract: An investigation was conducted for the purpose of
determining feasibility of producing steatitic
masses (M) of high mechanical strength usable for
the electrotechnical application. As basic components of M the Chinese or Egyptian talcum (raw and

Card 1/5

POLAND / Chemical Technology. Chemical Products.
Ceramics. Glass. Astringents. Concrete.

H

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 68158.

Abstract: calcined at 900°) were used together with Ba CO₃ and MgCO₃. As additive - refractory clays (Chasov'yanaya or Vil'dshtein), and bentonite. As mineralizers - ZnO, ZrO₂ and PbO. The raw ingredients were first ground in the ball mills separately then were compounded by weight to give a desired composition of M. Five different M batches were prepared that differed from each other by their composition of basic ingredients, additives and mineralizers (in quantities of 2, 4 and 6%). The total number of M samples was 22. Mixed M samples were subjected to the wet grinding in laboratory stoneware mills at the ratio of M: balls: water of 1:1:1 for 48-50 hours and until residue on the 0.06mm sieve was < 1.5%. M were dried and rewet-

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POLAND / Chemical Technology. Chemical Products. H
Ceramics. Glass. Astringents. Concrete.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 68158.

Abstract: ted up to 8.5 - 9.0% water content, followed by pressing of cakes at 280 kgr/cm², breaking them into powder of 0.3 - 1.5mm particle size, which were later pressed again at 300 kgr/cm² with 7.5% water content (or extruded into strip samples) into the shapes suitable for subjecting them to the mechanical strength testing apparatus. In order to permit precise machining of the samples prior to calcination, the samples were impregnated with paraffine wax, then they were machined, followed by the removal of wax, by heating at 200°. Calcination of the samples was conducted in a

Card 3/5

POLAND / Chemical Technology. Chemical Products.
Ceramics. Glass. Astringents. Concrete.

H

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 68158.

Abstract: furnace for 17-21 hours with the maximum temperature reaching 1350-1370° level. Special attention was payed to the progress of baking the samples. During the final step, samples were regularly removed from the furnace and inspected. Shrinkage of M in the baking operation constituted 10-16%, the best samples shrunk by 14.5-16%, during the last intervals of baking of the steatitic M that varied in the range of 10-15°. S' (bending) was determined on cylindrical samples 8-10mm diam. and 70-75mm long. For the best M S' (bending) was 1420 kgr/cm², as compared to 1010 kgr/cm² of the ordinary Polish commercial grade steatitic M. Electrical properties (the dielectric permeability, e, its temperature coefficient, coefficient of losses, tg, and

Card 4/5

28

PETRENKO, B.G., prof.; ANDREYEV, Ye.V., kand.veterin.nauk; ROTOV, V.I.,
kand.veterin.nauk; TOLSTYAK, I.Ye., kand.veterin.nauk;
KONOZENKO, P.A., mladshiy nauchnyy sotrudnik; OMELAYENKO, A.A.,
mladshiy nauchnyy sotrudnik; BAKUMENKO, M.D., mladshiy nauchnyy
sotrudnik; GIECHETKINA, N.P., starshiy laborant

Crystal violet blood vaccine against foot-and-mouth disease.
Veterinariia 40 no.7:9-10 J1 '63. (MIRA 16:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy
veterinarii.
(Ukraine--Foot-and-mouth disease--Preventive inoculation)

OMELAYENKO, A.S.; BLOKH, P.V.

Parametric instability of an electron beam in an inhomogeneous
anisotropic dielectric. Izv. vys. ucheb. zav.; radiofiz. 6
no.5:946-951 '63. (MIRA 16:12)

1. Institut radiofiziki i elektroniki AN UkrSSR.

RAZUMOV, V.A.; AYDAROV, T.K.; Prinimali uchastiye: MURTAZIN, E.Z.;
LUKINA, V.A.; OZHILAYEVA, F.B.

Tetrahydrox-p-benzoquinone as a selective reagent for lead.
Zhur. anal. khim. 19 no.6:746-748 '64. (MIRA 18:3)

ZVEREVA, G.V., prof.; OMEL'CHAK, N.P., aspirant; TIKHONOV, N.M., aspirant

Methods for intravital examination of ovaries in cows. Veterinerija
42 no.7:81-82 Jl '65. (MIRA 18:9)

1. Lvovskij zoveterinarnyy institut.

OMELCHENKO, A.; MOJHOV, A.

"Optical instrument for measuring the radius of a curvature." P. 166.

JEMNA MECHANIKA A OPTIKA. (Ministerstvo presneho strojirenstvi a
Ustav pro vyzkum optiky a jemne mechaniky). Praha, Czechoslovakia,
Vol. 4, No. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August, 1959.
Uncia.

L 00554-66

ACCESSION NR: AP501 266

UR/0356/65/000/007/0050/0053
631.364.7:636.085.52

AUTHORS: Samoylov, I. (Candidate of technical sciences); Omel'chenko, A.

TITLE: Universal chopper-loader

SOURCE: Tekhnika v sel'skom khozyaystve, no. 7, 1965, 50-53

TOPIC TAGS: agricultural machinery, universal chopper loader / PSN 1 chopper loader

ABSTRACT: A universal chopper-loader PSN-1 has been developed by VNIKhOMm, and since last year has been built by the Belotserkovsk factory "Avtotraktorodetal". It is mounted on tractor MTZ-5LS via a welded frame and powered by the tractor drive. The working parts consist of two drums having 6 radial cutting blades at each end, a screw conveyor, and a blower consisting of a conical 6-bladed disk connected to the spindle reducer through a clutch. The drums are mounted on a boom so that they can be lowered into the silo. On small farms the loader may be removed from the tractor in 5 minutes (one man) and replaced in 6-8 minutes so that the tractor can be used elsewhere. Capacity of the PSN-1 is 7.4 tons/hour, width of bite 1250 mm, drum peripheral speed 5.98 m/sec; diameter

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ACCESSION NR: AP5013266

of blower 800 mm, peripheral speed 48.7 m/sec; worm feed diameter 260 mm, 270 rpm; range of blower up to 5 m; weight 1225 kg. During silo unloading from 3-, 2-, 1-, 0.5-, and 0 m depth, the material flow to the blower is 2.7, 1.5, 5.3, 6.7, and 8.2 kg/sec respectively. A maximum of 44 hp is required for operation of the loader. The quality of the silo is improved since the particles are reduced in size from 74.5 mm average for hand-loaded to 42.7 mm for machine loaded silos. Estimated cost of loading per ton is 22.5 kopeks as compared with ~40 kopeks with old methods (RS-200 RSS-6). A modified version with smaller drums and larger screw feed can be used for chopping and loading straw. Orig. art. has: 1 figure and 3 tables.

ASSOCIATION: none

SUBMITTED: 00

NO REF Sov: 000

ENCL: 00

SUB CODE: IE

OTHER: 000

Card 2/2

OMEL'CHENKO, A.A., inzhener; YUSHCHENKO, L.A., inzhener.

MS-5 machine for weaving mats. Sel'khozmashina no. 9:12-14 S '56.
(MLRA 9:11)

1. Gosudarstvennoye spetsial'naya konstruktorskoye byuro po vodo-khozyaystvu.
(Weaving)

Handwritten signature

OMEL'CHENKO, A.A., inzh.; VOZNYY, N.I., inzh.

Device used in drilling holes for insect traps on sugar beet fields.
Trakt, i sel'khozmash. no. 4:35-36 Ap '59.

(MIRA 12:5)

(Weevils) (Agricultural machinery)

OMEL'CHENKO, I.A., inzh.

Machinery for mechanized feed distribution in swine sections
of collective farms. Mashinostroenie no.1:72-75 Ja-F '63.
(MIRA 16:7)

(Swine breeding) (Farm mechanization)

AMETIST, A.I., OMEL'CHENKO, A.A., master

Makin' solid plain doors using wood waste. Suggested by A.I.Ametist,
A.A.Omel'chenko. Rats.i izobr.predl.v stroi. no.16:132-134 '60.
(MIRA 13:9)

1. Glavnyy inzhener derevobdelochnogo kombinata Khar'kovskogo
sovna'khoza, Khar'kov, Biologicheskaya ul., d.13.
(Wood waste) (Doors)

OMEL'CHENKO, A.A., inzh.

Rota'y conveyor milking units. Mashinostroenie no.6:75-79 N-D
'63. (MIRA 16:12)

1. Klyevskoye gosudarstvennoye spetsial'noye konstruktorskoye byuro
po sel'skokhozyaystvennym mashinam.

OMEL'CHENKO, A. A.

OMEL'CHENKO, O.O.; LIVSHITS, Yu.L. [Livshyts', IU.L.]; NOSKO, A.S.

The RU-8,0 feed distributor. Mekh. sil'. hosp. 14 no.9:25-
26 S '63. (MIRA 17:1)

1. Pratsivniki Kiivs'kogo DSKB po sil'gospmashinakh.

OMEL'CHENKO, A.A., inzh.; KULAKOVSKIY, I.V., inzh.

Tractor-mounted two-sided feeders. Mashinostroenie no.4:
9'-97 J1-Ag '64. (MIRA 17:10)

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ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

KUPRIANOVA, A.I.; OMEL'CHENKO, A.D., i.o. Glavnogo metodista; YERMOLENKO, I.Y.; POSPELOVA, L.P.; ZHURAVLEV, N.N.; ORIGOR'YEV, V.V., otvetstvennyy redaktor; BEMDARSKAYA, G.A., redaktor; PAVLOVA, M.M., tekhnicheskyy redaktor

[The "Volga Valley" pavilion; a guidebook] Pavil'on "Povolzh'e; putesvoditel'. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 29 p.
(MIRA 9:12)

1. Moscow. Vsesoyuznaya sel'skokhozyaystvennaya vystavka, 1954-

2. Direktor pavil'ona (for Zhuravlev)

(Volga Valley--Agriculture)

(Moscow--Agricultural exhibitions)

OMEL'CHENKO, A.D., inzh.-mekhanik

Transporting tailings to the dump on conveyers. Gor. zhur.
no. 6:75-77 Je '61. (MIRA 14:6)

1. Karakubskoye rudoupravleniye.
(Tailings (Metallurgy))
(Conveying machinery)

OME L'CHENKO, A.D., inzh.-mekhanik

Ways of increasing the labor productivity in pits of the Kara-kubskiy Mining Administration. Gor.zhur. no.518-10 My '62.
(MIRA 16,1)

1. Karakubskoye rudoupravleniye, Donetskij sovet narodnogo
khozyaystva,
(Komsomol'skoye region (Donetsk Province) Strip mining—
Labor productivity)

OMEL'YENKO, A. I.

Mbr. . State Optical Institute (-1945-)

"An Optical Method of Measuring Internal Threads," Stanki I Instrument, 16, No. . , 1945

■-52059019

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238020020-3

OMEL'CHENKO, A. I.

Optical internal gauges. Izm. tekhn. no. 3:20-22 Ny-Je '57.
(Optical instruments) (Gauges) (MLRA 10:8)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238020020-3"

SOV/115-58-1-7/50

AUTHORS: Omal'chenko, A.I., and Mokhov, A.V., (deceased)

TITLE: An Optical Instrument for Measuring the Radius of Curves
(Opticheskiy pribor dlya izmereniya radiusa zakrugleniya)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 1, pp 18 - 19 (USSR)

ABSTRACT: This is a detailed description of the design and operations of a new optical device, consisting of a double microscope, for checking the radius of edges of small bores. The device produces an "optic section", visible in the focus plane of the ocular, from which the bore radius must be computed. The absolute error of measurements on radii of 0.5 to 0.8 mm is about 0.03 to 0.05 mm. There is 1 photo, 1 diagram and 2 Soviet references.

1. Curved profiles--Measurement 2. Optical instruments--Performance

Card 1/1

25(1), 28(2)

SOV/115-59-8-3/33

AUTHOR: Omel'chenko, A. I.TITLE: A Microscope for Measuring Internal ThreadPERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 8, pp 7 - 9 (USSR)

ABSTRACT: The author describes the IZK-59 microscope for measuring three basic elements of internal thread. This device is based on the dual microscope of Academician V. P. Linnik. For applying the system of the dual microscope for measuring internal thread with a pitch exceeding 0.5 mm, the flat slit was replaced by a spatial one, having a shape similar to the thread profile. The thread measuring IZK-59, shown in Figure 1, is an accessory to the universal measuring microscopes UIM-21 and UIM-22. The basic parts and the slits are located inside the measuring head which is screwed into the opening of the main microscope housing which serves for fastening the lenses. The illumination devices of microscopes UIM-21 and UIM-22 are used as light sources. One and the same spatial slit of the microscope may be used for measuring metric and inch thread having a profile angle of 55°. The IZK-59 microscope may be used

Card 1/2

SOV/175-59-8-3/33

A Microscope for Measuring Internal Thread

for measuring thread with a pitch of 0.25 to 2mm and diameters ranging from 18 to 98 mm. The diameter may be increased to 190 mm by shifting the centering clamp in regard to the table of the UIM-21 in the direction of the observer. When measuring the pitch or the diameter, the reading devices from microscopes UIM-21 or UIM-22 are used. The errors when performing measurements in combination with the UIM-21 microscope are ± 0.002 mm for pitch, ± 0.003 mm for the diameter and 8-15 minutes for profile angles depending upon the thread pitch. The IZK-59 may find application in the machinebuilding industry and at shipyards. Presently, the IZK-59 is produced by one of the plants of the Leningrad sovnarkhoz. There are 4 photographs.

Card 2/2

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238020020-3

OMEL'CHINKO, A. N., ed.

A mine surveyor's reference book 2 izd. Moskva, Ugletekhizdat, 1953. 1050 p. (54-35058)
TN273.S63

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238020020-3"

OMEL'CHENKO, A. N.

PA 48/49T76

USER/Mining
Coal

Mar 49

"Studies on the Movement of Mineral Rock and
Reasons for Decreasing Output at Moscow Coal
Field Mines," A. N. Omel'chenko, Mining Eng.,
Moskugol, Combine, 3 pp

"Ugol" No 3

In 1932 studies were started to determine reasons
for settling of ground above Moscow coal mines.
Briefly describes conditions of deposits and type
of soil found around coal. In many of the mines
there is a large flow of water. All factors
were considered and special study was recommended

48/49T76

USER/Mining (Contd)

Mar 49

of 1939 regulations for preventing undesirable
aftereffects as the result of mining.

48/49T76

OMEL'CHENKO, A.N.

OMEL'CHENKO, A.N., kandidat tekhnicheskikh nauk, redaktor; ZDANOVICH, G.V.,
doktor tekhnicheskikh nauk, redaktor; TIMOFEEV, B.I., inzhener, re-
daktor.

[Mine surveying manual] Spravochnik po marksheiderskому делу. [Ob-
shchaisaia red. A.N.Omel'chenko, V.G.Zdanovich, B.I.Timofeev.] Moskva,
Ugletsakhizdat, 1953. 1050 p. (MLRA 7:4)
(Mine surveying)

ОАМ УССР В М. А. Р.

OMEL'CHENKO, A.N., kandidat tekhnicheskikh nauk, redaktor; AVERSHIN,
S.Y., doktor tekhnicheskikh nauk, professor, redaktor; KAZAKOVSKIY,
D.A., doktor tekhnicheskikh nauk, professor, redaktor; KUZNETSOV,
G.N., kandidat tekhnicheskikh nauk, redaktor; NIKIFOROV, B.I.,
doktor tekhnicheskikh nauk, professor, redaktor; RODKOVICH, D.V.,
kandidat tekhnicheskikh nauk, redaktor; TIMOFEEV, B.I., gornyy
inzhener, redaktor; SLAVCROSOV, A.Kh., redaktor; SHPAK, Ye.O.,
tekhnicheskiy redaktor

[Studies in surveying] Issledovaniya po voprosam marksheiderskogo
dela. Moskva, Ugletekhizdat. No. 27. 1953. 394 p. [Microfilm].

(MIRA 8:7)

1. Leningrad. Vsesoyuznyy nauchno-issledovatel'skiy marksheyder-
skiy institut.

(Mine surveying).

OMEL'CHENKO, A.N.

OMEL'CHENKO, A.N., kandidat tekhnicheskikh nauk; GLRYZER, M.I., gornyy
inzhener.

Losses of coal chippings in mines. Ugol' 29 no.4:37-38 Ap '54.
(MLRA 7:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut.
(Coal mines and mining)

OMEL'CHENKO, A.N.

OMEL'CHENKO, A.N.

Reducing loss in building on coal mining areas in the Moscow
Province. Trudy VNIIM no.29:165-168 '54. (MIRA 8:3)
(Moscow Basin—Coal mines and mining)

OMEL'CHENKO, A.N., redaktor; SLAVCHOSOV, A.Kh.; ALADOVA, Ye.I., tekhnicheskij redaktor.

[Mine surveying reference book] Spravochnik po markshiderskomu delu. 2-e izd., ispr. i perer. Moskva, Ugletekhizdat, 1955. 612 p.
(Mine surveying) (MIRA 9:3)

OMEL'CHENKO, A.N., kandidat tekhnicheskikh nauk

The All-Union Mine Surveying Scientific Research Institute's
scientific research work. Ugol' 30 no.6:5-8 Je '55.
(MIRA 8:8)

1. Vsesoyuznyy Nauchno-issledovatel'skiy marksheyderskiy institut
(Mine surveying)

OMEL'CHENKO, Aleksandr Nikolayevich; SEREBRYANYY, A.G., otvetstvennyy
redaktor; AL'DOVA, Ye.I., tekhnicheskiy redaktor; MADEINSKAYA, A.A.,
tekhnicheskiy redaktor

[Elements of mining systems and losses in the Moscow Basin] Elementy
sistem razrabotki i poteri v Podmoskovnom bassaine. Moskva, Ugle-
tekhnizdat, 1956. 104 p.
(MLRA 10:1)
(Moscow Basin--Coal mines and mining)

~~Составители~~
OMEL'CHENKO, A.N., kand. tekhn. nauk; GLEYZER, M.I., gornyy inzh.

~~Редакторы~~
Economic estimate of coal losses, Part 2. Ugol' 33 no.1:33-34 Ja
'58. (MIRA 11:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut.
(Coal mines and mining)

OMEL'CHENKO, A. N., Dr. Tech. Sci. (diss) "Problems of the Optimal Extraction of Minerals During Exploitation," Leningrad, 1961, 48 pp (Presidium VAK) 200 copies (KL Supp 12-61, 261).

OMEL'CHENKO, A.N., kand.tekhn.nauk

Experiment in setting the norms of operational coal losses in coal basins.
Ugel' 37 no.7:50-52 Jl '62.
(Mining engineering)

OMEL'CHENKO, A. N., kand.tekhn.nauk

Methodology for making an economic estimate of coal losses in mines,
[Trudy] VNIMI no.45:18-26 '62. (MIR 16'4)
(Coal mines and mining--Finance)

OMEL'CHENKO, A.N., kand.tekhn.nauk; GLEYZER, M.I., kand.tekhn.nauk

Calculation of reserves, yield, losses, and depletion of ore in mines of
the "Apatit" Combine. [Trudy] VNIIM no.45:27-49 '62. (MIRA 16:4)
(Apatite)

OMEL'CHENKO, A.N., kand. tekhn. nauk; GLEYZER, M.I., kand. tekhn. nauk

Calculation of the amount of exploitation losses and ore
depletion. Gor. zhur. no.7:11-15 Jl '63. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy
institut, Leningrad.

SHASHURIN, S.L., gornyy inzh.; PLAKSA, N.V., gornyy inzh.; OMEL'CHENKO, A.N.,
kand.tekhn.nauk; GLEYZER, M.I., kand.tekhn.nauk

Discussion of B.F.Novozhilov's article "Quality of ferrous metal
ores and the profitableness of production." Gor. zhur. no.9:
5-9 S '63. (MIRA 16:10)

1. Nikitovskiy rtutnyy kombinat, Donetskaya obl. (for Shashurin,
Plaksa). 2. Vsesoyuznyy nauchno-issledovatel'skiy markshey-
derskiy institut, Leningrad (for Omel'chenko, Gleyzer).

OMEL'CHENKO, A.N.; GLEYZER, M.I.; GAVRILOV, B.F.

Calculation of losses of ore in the mine in induced block caving.
Razved. i ekh. nedr 29 no.7:44-46 Jl '63. (MIRA 16:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut.
(Mining engineering)

OGLOBLIN, D.N., prof., doktor tekhn. nauk, red.; OMEL'CHENKO, A.N.,
kand. tekhn. nauk, red.

[Mine surveying in socialist countries] Marksheiderskoe
delo v sotsialisticheskikh stranakh; nauchno-tehnicheskii
sbornik. Moskva, Izd-vo "Nedra," 1964. 359 p.
(MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gornoj geo-
mekhaniki i marksheyderskogo dela (for Omel'chenko). 2. Do-
netskiy politekhnicheskiy institut (for Ogloblin).

OMEL'CHENKO, A.N., kand. tekhn. nauk; GLEYZER, M.I., kand. tekhn. nauk

Methods of determining the amount of ore depletion. [Trudy]
VNIMI no.47:216-228 '62 (MIRA 17:7)

OMKL'CHENKO, A.N., kand. tekhn. nauk; GNISHCHENKO, M.D., inzh.

Establishing norms for losses and the depletion of ore resources
during the mining of complex ore deposits. [Trudy] VNIMI no.17:
(MIRA 17:7)
229248 '62

OMEL'CHENKO, A.N., kand. tehn. nauk; GLAVNIY, M.I., kand. tehn. nauk;
GAVRILOV, B.F., inzh.

Which should be normalized, mineral losses or their recovery?
[Trudy] VNIIM no.50:265-266 '63.

(v. 100, 1970)

MEL'NIKOV, N.V.; SLEDZYUK, P.Ye.; ZAV'YALOV, S.S.; BUNIN, A.I.;
VASIL'YEV, M.V.; NOVOZHILOV, M.G.; ZURKOV, P.E.; IL'IN, M.V.;
VILESOV, G.I.; POPOV, S.I.; SANDRIGAYLO, N.F.; SHILIN, A.N.;
ZUBRILOV, L.Ye.; TSIMBALENKO, L.N.; VLOKH, N.P.; OMEL'CHENKO, A.N.

Mikhail Lazarevich Rudakev, 1912-1964; an obituary. Gor.
zhur. no.9:78 S '64. (MIRA 17:12)

10

OMEL'CHENKO, A. T., Cand Med Sci -- "Effect of the juice of black radish upon
the secretion of bile in humans, and its comparison with the action of certain
other coleretics." Kiev, 1960 (Acad Sci UkrSSR. Department of Biol Sci).

(KL, 1-61, 209)

-413-

OMEL'CHENKO, A.T. [Omel'chenko, O.T.]

Reflex action of cholagogues from different segments of the duodenum. Fiziologicheskii zhurnal, [Ukr.,] 6 no.2;252-259 Mr-Ap '60,
(MIRA 13:7)
1. Kiyevskiy meditsinskiy institut, terapevcheskaya klinika
i Institut fiziologii im. A.A. Bogomol'tsa AN USSR, otdel
klinicheskoy fiziologii.
(CHOLAGOGUES)

IVANOV, Vadim Nikolayevich, akademik; MAKAROV, A.F., prof.,
akademik, otd. red.; BURCHINSKIY, G.I., prof., red.;
PELESHCHUK, A.P., prof., red.; MULIN, N.I., prof., red.;
REVUTSKIY, Ye.L., st. nauchn. sotr., red.; SKOPICHENKO,
N.F., dots., red.; CHEBOTAREV, D.F., prof., red.;
OMEL'CHENKO, A.T., st. nauchn. sotr., red.; MATYASHEVSKAYA,
T.I., red.

[Selected works] Izbrannye trudy. Kiev, Naukova dumka,
1965. 334 p. (MIRA 18:8)

1. Deystvitel'nyy chlen AMN SSSR (for Ivanov). 2. AN Ukr. SSR
(for Makarchenko, Ivanov). 3. Chlen-korrespondent AMN SSSR
(for Chebotarev).

OMEL'CHENKO, B., ZOTIKOV, V.

Vitaminization of flour in the Moscow Milling Combine No.3, Muk.-elev.
prom. 28 no.11:21-23 N '62. (MIRA 16:2)

1. Moskovskiy mel'nicnyy kombinat No.3,
(Moscow—Flour mills)

(Vitamins)

BOBROV, G.; OMEL'CHENKO, B.

Moscow Milling Combine No. 3 as an enterprise of communist labor. Muk.-
elev. prom. 29 no.11:3-5 N '63. (MIRA 17:2)

1. Direktor Moskovskogo mel'nichnogo kombinata No.3 (for Bobrov). 2.
Glavnyy inzh. Moskovskogo mel'nichnogo kombinata No.3 (for Omel'chenko).

L 27126-66 EWT(m)/EWP(l) IJP(c)
ACC NR: AP6001565

SOURCE CODE: UR/0120/65/000/006/0023/0026

AUTHOR: Issinskiy, I. B.; Kazanskiy, G. S.; Mikhaylov, A. I.; Myznikov, K. P.;
Omel'chenko, B. D.; Tsarenkov, A. P.

ORG: Joint Nuclear Research Institute (Ob'yedinennyj institut yadernykh issledovaniy)

TITLE: Programing the operation of the OIYai proton synchrotron for physical
experiments

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1965, 23-26

TOPIC TAGS: synchrotron, proton beam, computer programming

ABSTRACT: Two types of proton-synchrotron operation are usually required for
physical experiments at OIYai: (1) Short (50–500 μ sec) bursts of particles for
bubble-chambers and (2) longer (up to 200 msec) pulses for counters. A programming
system was developed which consists of a 7-channel operation-sequence unit, a
command unit, a target-control unit, field sensors, a supply-control unit, and
function manipulators. Several methods are envisaged for slow and fast application
of the beam to various targets. Only block diagrams and short explanations are
presented. Orig. art. has: 4 figures.

SUB CODE: 18, 09 / SUBM DATE: 20Oct64 / ORIG REF: 006

Cord 1/1 PE

UDC: 621.384.66

BOGOSLOVSKIY, Yu.N.; MAKAROV, G.N.; BRONSHTEYN, A.P.; MUZYCHENKO, L.A.;
OMEL'CHENKO, B.N.

Effect of added coke on the process of carbonization of gas
coal and on the quality of the coke produced. Trudy MFTI no.28:
64-72 '59. (MIRA 13:11)

(Coal--Carbonization)

BOGOSLOVSKIY, Yu.N.; MAKAROV, G.N.; MUZYCHENKO, L.A.; OMZL'CHENKO, B.N.

Substitution of breeze for PS coals in charges of the Cherepovets
Plant. Trudy MKHTI no.128:58-63 '59. (MIRA 13:11)

(Cherepovets--Coke)

Omel'chenko, B. V.

USSR/Engineering - Tools

Card 1/1 Pub. 103 - 9/29

Authors : Omel'chenko, B. V., and Gerstenberg, O. F.

Title : Thread rolling with a knurl head

Periodical : Stan. i instr. 10, 22-23, Oct 1954

Abstract : A description is presented of rolling threads on fastening bolts with a knurling head. Diagrams depicting the above mentioned knurling head are given, together with a table listing technical specifications.

Institution : ...

Submitted : ...

ACC NR: AT7002129

(A)

SOURCE CODE: UR/0000/66/000/000/0521/0528

AUTHORS: Vorontsov, V. L.; Moskalev, V. A.; Nagibina, I. M.; Omol'chenko, D. I.; Khesin, G. L.

ORG: none

TITLE: Determining the sum of principal stresses with the aid of interferometers

SOURCE: Vsesoyuznaya konferentsiya po polyarizatsionno-opticheskому методу изследования напряжений. 5th, Leningrad, 1964. Polyarizatsionno-opticheskiy metod issledovaniya napryazheniy (Polarizing-optical method of investigating stresses); trudy konferentsii. Leningrad, Izd-vo Leningr. univ., 1966, 521-528

TOPIC TAGS: stress analysis, optics, optic measurement, optic method, light interference, interferometer, multibeam interferometer

ABSTRACT: The construction and performance of a device used for the measurement of principal stresses in materials are described. The work was done at the Leningrad Institute of Precise Mechanics (Leningradskiy institut tochnoy mekhaniki) and the Moscow Structural Engineering Institute (Moskovskiy inzhenerno-stroitel'nyy institut). The device is the triple-plate interferometer IT (see Fig. 1). The interferometer consists of three light-separating covers A, B, and C set on glass plates. The light paths are shown in Fig. 1: rays 1 and 2 form the interference pattern of greatest intensity, and all calculations are referenced to these two. The variation of the

Cord 1/3

ACC NR: AP7CO2129

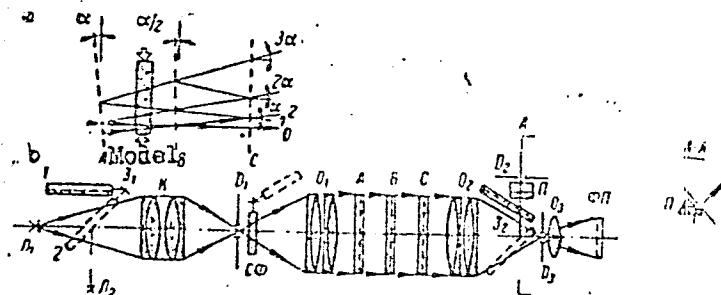


Fig. 1. Triple-plate interferometer: a - principal diagram of the device; b - optical diagram of the interferometer; N_1 - DRSh-250 lamp; N_2 - STs-76 lamp; J_1 - rotating mirror for source shift; K - condenser; D_1 - input diaphragm; $C\phi$ - light filter; O_1 - collimator objective; O_2 - camera objective; A,B,C - interferometer plates; J_2 - rotating "ocular-photo" mirror; D_2 and D_3 - output diaphragms; π - rotating ocular prism; O_3 , $\phi\pi$ - photo attachment

distance between the light-separating covers may be equated with the length of the optical paths of the first and second beams. The path difference between paths 1 and 2 is given by

$$\Delta = N\lambda = 2d(n-1)$$

Card 2/3

ACC NR: AF7002129

where N is the order of interference; λ - the wavelength of the light; δ - the variation of thickness of the model; n - the refraction index of the material of the model. Also, from Hooke's Law

$$\epsilon_z = \frac{\delta t}{t} = \frac{1}{E} [\sigma_z + \mu(\sigma_x + \sigma_y)],$$

and for $\sigma_z = 0$, it follows that

$$\delta t = \frac{\mu}{E} (\sigma_x + \sigma_y),$$

where E and μ are the modulus of elasticity and Poisson's coefficient, respectively. Principal stresses are then related to the order of interference by the equation

$$N = \frac{2\mu(n-1)}{EA} (\sigma_x + \sigma_y) = K(\sigma_1 + \sigma_2).$$

The authors illustrate by example how the device may be used to determine the sum of principal stresses and each principal stress individually. The device itself is noted as being simple in construction and in use, compact, and stable with respect to vibration and temperature variation. Orig. art. has: 5 figures and 5 equations.

SUB CODE: 20, 13 / SUBM DATE: 14Jun66 / ORIG REF: 004 / OTH REF: 007 [W.A. 101]

Card 3/3

OMEL'CHENKO, F.

Are Comrades Treushnikov and Kirillov right? Rech. transp.
21 no.9:50 S '62. (MIRA 15:9)

1. Kapitan teplokhoda "Orsha".
(Beacons)

OMEL'CHENKO, F.; BEL'SKIY, E.

We are repairing our dredge. Kolyma 21 no.2:8 F '59.
(MIRA 12:7)

1. Draga No.173 priiska im. Gastello (for Omel'chenko). 2. Draga
No.174 priiska N_o.174 (for Bel'skiy).
(Dredging machinery--Maintenance and repair)

OMEL'CHENKO, F.S., kandidat tekhnicheskikh nauk.

Viscosity of oil for clocks and watches. Masl.-zhir.prom. 17
no.11:15-17 N '52. (MIRA 10:9)

1. Krasnodarskiy institut pishchevoy promyshlennosti.
(Lubrication and lubricants)

OMEL'CHENKO, P.S., kandidat tekhnicheskikh nauk.

Crushing fruit stones. Masl.-zhir.prom, 18 no.5:11012 My '53 (MLRA 6:5)

1. Kafedra tekhnologii zhivotobyyvaniya KIPP. (Oils and fats) (Crushing machinery)

OMEL'CHENKO, F.S.

USSR/Chemical Technology - Chemical Products and Their
Application. Fats and Oils, Waxes, Soap, Detergents.
Flotation Reagents I-25

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 13752

Author : Omel'chenko F.S.

Title : Determination of Acid Values of Dark Cottonseed Oils
with the Use of Bromothymol Blue Indicator.

Orig Pub : Maslob.-zhir. prom-st', 1954,^{1/2} No 2, 27-28

Abstract : The alcohol-ether method is modified by replacing the
phenolphthalein (I) indicator by bromothymol blue (II)
(1% solution in 20% alcohol), either as such or in ad-
mixture with I, and using samples of 1-3 g. On use of
I the liquid acquires a blue coloration at the transi-
tion point, while with I - II the change in color is
clearly apparent against a blue background.

Card 1/1

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Tocopherol content of sunflower seed oil. Masl.-zhir.prom. 25
no.12:10-12 '59. (MIRA 13:4)

1. Krasnodarskiy institut pishchevoy promyshlennosti.
(Sunflower seed oil)
(Tocopherol)